

SPEAKER CIRCUIT SCHEDULE

TRANSPONDER LOCATION	TSC DESIGNATION	CIRCUIT DESIGN.	LOAD WATTS	AREA SERVED	SPEAKERS PER CIRCUIT				CIRCUIT LENGTH (FT)		REMARKS	
					1/2W	1W	2W	4W	TRANSPONDER TO TSC	TSC TO F.O.L.		TOTAL
FC-NEB1 LOCATED IN FIRE ALARM CLOSET, B1 LEVEL, 5 WTC NEAR THE COL. E20/13	TSC-M-NEB1	*E	12	MER1, MER2	--	--	4	1	--	650		
		*F	10	MER1, MER2	--	--	3	1		760	760	
		--	--	--	--	--	--	--		--		
		--	--	--	--	--	--	--		--		
		--	--	--	--	--	--	--		--		
		--	--	--	--	--	--	--		--		
TOTAL SPEAKER LOAD			22									
FC-NEB2 LOCATED IN FIRE ALARM CLOSET, B2 LEVEL, 5 WTC	TSC-M-NEB2	*A	3 1/2	EMR FE-1	1	3*	--	--	--	360	360	--EXISTING
		--	--	--	--	--	--	--		--		
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TOTAL SPEAKER LOAD			3 1/2									
LOCATED IN 5 WTC, 3rd FLOOR, INSIDE MER1	TSC-F1A-NE3	*E	2	MER #1	--	--	1	--	120 (SEE NOTE BELOW)	40	160	
		--	--	--	--	--	--	--		--		
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TOTAL SPEAKER LOAD			2.0									
<u>NOTE:</u> 120FT IS THE DISTANCE BETWEEN FA CLOSET FC-NE-? AND TSC-F1A												
FC-NE9 LOCATED IN 5 WTC, FIRE ALARM CLOSET, 9th FL. STAIRWAY "D"	TSC-M-NE9	*A	6	9th FLOOR MER	--	--	3*	--	--	--	--	--EXISTING
		*D	2	10th FLOOR EMR'S	--	--	1	--		130	130	
		--	--	--	--	--	--	--		--		
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TOTAL SPEAKER LOAD			8									

STROBE CIRCUIT SCHEDULE

TRANSPONDER	TSC OR PAD DESIGNATION	CIRCUIT NUMBER	LOAD amps	AREA SERVED	15cd	15/75cd	30cd	75cd	CIRCUIT LENGTH (FT)		
					0.063		0.100	0.165	TRANSPONDER TO TSC	TSC TO F.O.L.	TOTAL
FC-NEB1 LOCATED IN FIRE ALARM CLOSET, B1 LEVEL, 5 WTC NEAR MER1	TSC-M-NEB1	*A	0.863	MER1	1	--	8	--	--	350	350
		*B	0.800	MER1	--	--	8	--	--	340	340
	PAD-M-1	*G1	0.826	MER2	2	--	7	--	--	450	450
		*G2	0.800	MER1	--	--	8	--	--	330	330
	PAD-M-2	*H1	0.700	MER1	--	--	7	--	--	370	370
		*H2	0.726	SUBSTATION	2	--	6	--	--	330	330
TOTAL STROBE LOAD			4.715								
FC-NEB2 LOCATED IN FIRE ALARM CLOSET, B2 LEVEL, 5 WTC	TSC-M-NEB2	*A	0.063	EMR FE-1	1	--	--	--	--	280	280
TOTAL STROBE LOAD			0.063								
LOCATED IN 5 WTC, 3rd FLOOR, INSIDE MER1	TSC-F1A-NE3	*E	0.200	MER	--	--	2	--	--	100	220
TOTAL STROBE LOAD			0.200								
NOTE: 120FT IS THE DISTANCE BETWEEN FA CLOSET FC-NE-? AND TSC-F1A											
FC-NE9 LOCATED IN 5 WTC, FIRE ALARM CLOSET, 9th FL. STAIRWAY "D"	TSC-M-NE9	*A	0.500	9th FLOOR MER	--	--	5	--	--	440	440
		*B	0.763	9th FLOOR MER	1	--	7	--	--	480	480
		*C	0.400	9th FLOOR MER	--	--	4	--	--	470	470
		*D	0.563	10th FLOOR EMR'S	1	--	5	--	--	410	410
		*E	--	9th FLOOR MER-PAD-2 TRIGGER CKT	--	--	--	--	--	150	--
		*F	--	9th FLOOR MER-PAD-2 TRIGGER CKT	--	--	--	--	--	150	--
	PAD-M-1	*G1	0.763	9th FLOOR MER	1	--	7	--	--	220	220
		*G2	0.826	9th FLOOR MER	2	--	7	--	--	380	380
		*H1	0.700	9th FLOOR MER	--	--	7	--	--	400	400
		*H2	0.565	9th FLOOR MER	--	--	4	1	--	330	330
TOTAL STROBE LOAD			5.08								

HORN CIRCUIT SCHEDULE

TRANSPONDER	TSC OR PAD DESIGNATION	CIRCUIT NUMBER	LOAD amps	AREA SERVED	HORN(S) PER CIRCUIT		CIRCUIT LENGTH (FT)	
					SEA-3		TRANSPONDER TO PAD	PAD TO F.O.L. TOTAL
FC-NE91 LOCATED IN FIRE ALARM CLOSET, B1 LEVEL, 5 WTC NEAR MER1	PAD-M-1	"G3"	1.2	B1 LEVEL MER1	2		330	330
		"G4"	1.2	B1 LEVEL MER1	2		250	250
	PAD-M-2	"H3"	1.2	B1 LEVEL MER1	2		280	280
		"H4"	1.2	B1 LEVEL MER1, SUBSTATION	2		270	270
TOTAL HORN LOAD			4.8					
FC-NE9 LOCATED IN 5 WTC, FIRE ALARM CLOSET, 9th FL. STAIRWAY "D"	PAD-M-1	"G3"	1.2	9th FLOOR MER	2		400	400
		"G4"	1.2	9th FLOOR MER	2		240	240
	PAD-M-2	"H3"	1.2	9th FLOOR MER	2		300	300
		"H4"	1.2	9th FLOOR MER	2		230	230
TOTAL HORN LOAD			4.8					

NOTES:

1. FOR LEGEND, ABBREVIATIONS & GENERAL NOTES, SEE DWG E-1.

THE PORT AUTHORITY
OF NY & NJ

ENGINEERING PROGRAM MANAGER
WORLD TRADE
CHIEF ELECTRICAL ENGINEER

No. Date Revision Approve

ENGINEERING DEPARTMENT

WORLD
TRADE
CENTER

ELECTRICAL

Title
FIRE ALARM SYSTEM
PHASE III
5 WTC MER'S, EMR'S
AND SUBSTATIONS

STROBE, HORN
AND SPEAKER
CIRCUIT SCHEDULES

I HEREBY CERTIFY THAT THIS IS A TRUE AND
CORRECT COPY OF ONE OF THE CONTRACT
DRAWINGS CONSTITUTING A PART OF
CONTRACT NO. 10-94-571 IN
THE FORM IN WHICH SAID DRAWINGS
EXISTED AT THE TIME THE SAID CONTRACT
WAS EXECUTED BY THE PARTIES.

DATE 12/17/99
DATE 12/20/99
CONTRACT ENGINEER
ENGINEERING PROGRAM MGR.

FELDSTEIN ROYZMAN
Designed by Drawn by Checked by

5-17-99
Date

WTC-861.571
Contract Number

E-54
Drawing Number